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| EPAM Systems, RD Dep. |
| MTN.\*NIX Automated Environment Configuration Management  **Ansible. 2** |

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| REVISION HISTORY | | | | | |
| Ver. | Description of Change | Author | Date | Approved | |
| Name | Effective Date |
| <1.0> | Initial revision | Siarhei Beliakou | 04-Apr-2018 |  |  |
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# Lab Work Task. Day 2. Developing Roles.

# Review

Developing custom roles.

# Task

1. On Control Machine:

* Create folder **~/ansible/day2**. All working files should be placed there (Vagrantfile, playbooks, roles folder with custom roles, inventory)

1. Spin up 2 VMs form single Vagranfile. Compose Inventory:

* Specify groups
* Define group vars
* Define host vars
* Define ansible connection settings (common for all hosts/groups in inventory)

1. Develop following Roles:

* **common** (provides common system updates/configuration/so on)
* **devops\_user** (creates “devops:devops” user, updates authorized keys file, configures sudoers, disables requiretty setting for this user)
* **docker** (base installation and configuration)
* **k8s-base** (installs kub packages, depends on docker role with systemd cgroup driver)
* **k8s-master**
* **k8s-worker**

1. Make sure that all necessary application state changes are being done with ***handlers*** on demand.
2. All roles should leave facts about configured/provisioned software on the system (Verify system’s configuration with ad-hoc command – setup module - after provisioning)
3. Develop **provision.yml** playbook:

* Sections pre\_tasks, tasks, roles, post\_tasks
* Specify k8s cluster token in playbook, inventory (group vars, host vars), extra vars – try different.

1. Send report in **pdf** format to [Siarhei\_Beliakou@epam.com](mailto:Siarhei_Beliakou@epam.com), Subject: “[ANSIBLE DAY-2] Name Surname”